

## **Soft template synthesis in the cobalt(III)-1,2-diaminoethane-1,2-dithione- propanone triple system on a K[CoFe(CN)<sub>6</sub>]-gelatin-immobilized matrix**

Mikhailov O., Kazymova M.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

Complexation of Co(III), in the form of K[CoFe(CN)<sub>6</sub>]-gelatin-immobilized matrix, in contact with aqueous-alkaline solutions (pH ~ 12) containing 1,2-diaminoethane-1,2-dithione and propanone, has been studied. Template synthesis leading to a chelate Co(III) coordination compound with a tetradentate N,N,S,S-donor ligand identified as 4,4,6-trimethyl-1,9-diamino-1,9-dimercapto-3,7-diazanon-3-en-2,8-dithione and hydroxy co-ligand occurs under these specific conditions. 1,2-Diaminoethane-1,2-dithione and propanone are the ligand synthons in this process. © 2008 Springer Science+Business Media B.V.

<http://dx.doi.org/10.1007/s11243-008-9075-x>

---